English
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LG Electronics

BLUETOOTH® Hands-free Car Kit

HFB-500 User manual

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LG Electronics Inc., 2008

Note : For the best performance and to prevent any damage to, or misuse of the HFB-500, please read all of the information carefully prior to using the HFB-500.

Any modifications or changes to this manual due to typographical errors or inaccuracies of stated information shall only be made by LG Electronics Inc.

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Introduction

The LG Bluetooth® Hands-free car kit HFB-500 is a solar-powered wireless hands-free car kit utilizing Bluetooth technology with a slim and fashionable design. This product can be used as an audio accessory for devices supporting the Headset or Handsfree Bluetooth profiles.

Included in package

HFB-500 Hands-Free Car Kit

User manual

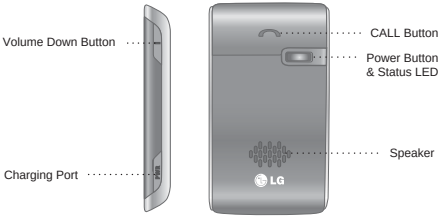
Car charger

Window mount

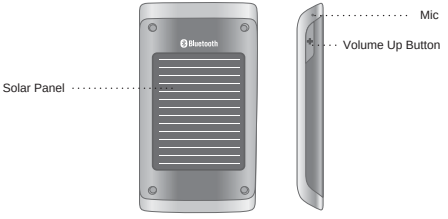
Suction cups

Warranty Card

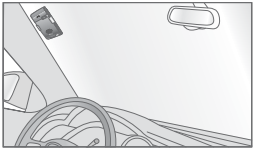
Front



Back



Recommend installation



- For the best performance, the HFB-500 should be positioned and installed on the windshield in front of the driver's seat.

  * WARNING :
    1. The HFB-500 must be positioned on the windshield in a way so that it does not obstruct the driver's view of the road.
    2. Do not position the HFB-500 in the way of any of your vehicle's airbags.

Charging

- Using the car charger
  - Remove the cover on the charging port and connect the included LG charger.
  - When the HFB-500 is charging the LED indicator flashes slowly.
  - It takes 2 hours to fully charge the hands-free car kit.
  - When charging is complete, the LED indicator will turn off.

  Note: The LED indicator only indicates the charging status if the hands-free car kit is turned off.

- Using solar power
  - Direct the solar panel on the back of the hands-free car kit toward the sun. (Please refer to the recommended installation position, as mentioned above.)
  - If the car kit receives sufficient sunlight for 2 hours, you can talk for a duration of up to 1 hour. When using solar power to charge the HFB-500, the talk time and standby time will be extended, without any need to plug in the charger.

  * WARNING : Do not attempt to charge the HFB-500 with any charger other than the one provided in the box. Using another charger may damage the HFB-500.

Low battery

- The LED indicator will flash once every 3 seconds when the battery status is lower than 10 % of the full charge.

Battery status

- By pressing the volume up and volume down button simultaneously and then quickly releasing them, the battery status is indicated by the number of red flashes and beeps.

Number of red flashes and beeps	4 flashes	3 flashes	2 flashes	1 flash
Talking time	More than 12 h	More than 8 h	More than 4 h	Up to 4 h

Power on

- Press and hold PWR button for 2 seconds.
- You will hear a startup tone and the LED indicator will rapidly flash 5 times.

Power off

- Press and hold PWR button for 2 seconds.
- You will hear a shutdown tone and the LED indicator will rapidly flash 5 times.

Pairing

- Prior to using the hands-free car kit for the first time, you must pair it with a Bluetooth-enabled handset.
- There are 2 pairing mode methods with the HFB-500.

1) Easy Pairing

- With the power off, press and hold the PWR button for 2 seconds, to turn on the HFB-500.
- The hands-free car kit will enter Auto-Reconnect mode, for 5 seconds (If your hands-free car kit has been previously paired to the handset, the hands-free car kit will automatically reconnect to the handset, when the HFB-500 is powered on.)
- After 5 seconds, the HFB-500 will automatically enter pairing mode.
- When the hands-free car kit enters Pairing mode, the LED indicator will flash at 2 second intervals. (The LED indicator is on 2 seconds, and off 2 seconds.)
- Using your handset, find the Bluetooth menu and “search for” or “add” new devices.
- Select “LG HFB-500” from the list of devices and pair it with your handset.
- When asked for the Pass/PIN code during the pairing procedure, please enter “0000” (4 zeros).
- Once pairing has completed successfully, you will hear a beep.
- After pairing successfully, be sure to “Connect” to the LG HFB-500.
- If you want to pair with a different device in the future, the hands-free car kit must be placed in pairing mode.
- If the hands-free car kit is in pairing mode for 3 minutes without being connected to a handset, the HFB-500 will automatically turn off.

2) Manual Pairing

- With the power off, press and hold the CALL button for 5 seconds.
- When the hands-free car kit enters Pairing mode, the LED indicator will flash at 2 second intervals. (The LED indicator is on 2 seconds, and off 2 seconds.)
- Using your handset, find the Bluetooth menu and “search for” or “add” new devices.
- Select “LG HFB-500” from the list of devices and pair it with your handset.
- When asked for the Pass/PIN code during the pairing procedure, please enter “0000” (4 zeros).
- Once pairing has completed successfully, you will hear a beep.
- After pairing successfully, be sure to “Connect” to the LG HFB-500.
- If you want to pair with a different device in the future, the hands-free car kit must be placed in pairing mode.
- If the hands-free car kit is in pairing mode for 3 minutes without being connected to a handset, the HFB-500 will automatically turn off.

Auto Reconnect

- When the HFB-500 turns off (accidentally or intentionally) while connected to a handset, the hands-free car kit will automatically reconnect when the HFB-500 is turned back on (as long as both devices are within the required range of 33ft. of 10m).

[Out of range]
- When the HFB-500 and your handset are separated by a distance of 33 feet (10 meters) or more, the HFB-500 and handset will disconnected. When the handset and HFB-500 are brought back within the required distance, the HFB-500 will automatically reconnect with the handset.
- If the HFB-500 and handset do not automatically reconnect when they are back within the required range, briefly press the CALL button on the HFB-500 to reconnect manually.

NOTE: If the HFB-500 and handset are out of range for 30 minutes, HFB-500 will automatically turn off, to help save power.

Volume control

- Briefly press the VOL UP or VOL DOWN button to adjust the speaker volume.
- There are eight levels of speaker volume.

Calling

Answering a call
- When there is an incoming call, the hands-free car kit will ring.
- Briefly press the CALL button to answer an incoming call.

Making a call
- If you make a call from the hands-free car kit, the call will (subject to phone settings) automatically transfer to the hands-free car kit. If the call is not automatically transferred, you can manually transfer the call by briefly pressing the CALL button on the HFB-500 (handset and hands-free car kit must be paired).

Voice dialing*
- Briefly press the CALL button to activate “Voice Command”. You will get the best results if you record the voice dialing tag through your hands-free car kit.

NOTE : If the handset does not support Voice Dialing, it is possible that performing this action will activate Last Number redial.

Last number redial*
- Press and hold the CALL button for 1 second to activate “Last Number Redial”. The hands-free car kit will beep, and call the last number dialed.

Ending a call
- Briefly press the CALL button.

Transferring a call*
- While on a call on your handset, briefly press the CALL button to transfer the audio to the hands-free car kit. (handset and hands-free car kit must be paired).
- And to transfer a call from the hands-free car kit to handset, press and hold VOL UP button for 1 second.

Call waiting*
- Answer a second call without hanging up the first call by pressing the CALL for 1 second. Press the CALL button for 1 second to return to the original call.
- Briefly press the CALL button to terminate both calls at once.

Call reject*
- Activate Call Reject by pressing the CALL button for 1 second when the hands-free car kit rings.

Mute
- To activate the mute function, press the VOL DOWN button for 1 second; this will mute your voice to the other party while on a phone call.
- To release the mute function, press the VOL DOWN button for 1 second again.
- When the mute function is activated, you will hear a beep periodically.

Note: The *Indicates that these functions are only available when the mobile phone supports them. For additional information regarding these functions, refer to the user manual of your Bluetooth mobile phone.

Multipoint

HFB-500 is capable of having two handsets connected to the hands-free car kit at the same time. This will give you the freedom of having your hands-free car kit to operate both of your handsets.

[Multipoint Connect]
- Pair the hands-free car kit with one of your Bluetooth-enabled handsets.
- Turn off the hands-free car kit.
- With the power off, press and hold the CALL button for 5 seconds to enter Manual Pairing mode.
- Pair and connect the hands-free car kit with your other Bluetooth-enabled handset.
- Go back and connect the first paired handset to the hands-free car kit.

*NOTE : Calling functions work with the most recently used handset.

Summary of button functions

Function	HFB-500 Status	Action
Power on	Power off	Press the PWR button for 2 seconds
Power off	Power on	Press the PWR button for 2 seconds
Volume up	Talking	Briefly press the VOL UP button
Volume down	Talking	Briefly press the VOL DOWN button
Transferring a call	Talking	- Handset to hands-free car kit Briefly press the CALL button (handset and HFB-500 must be paired) - Hands-free car kit to handset Press and hold the VOL UP button for 1second
Answering a call	Ringing	Briefly press the CALL button
Ending a call	Talking	Briefly press the CALL button
Call waiting	Talking	Press the hold the CALL button for 1 second
Last number redialing	Idle	Press the hold the CALL button for 1 second
Voice dialing	Idle	Briefly press the CALL button
Call reject	Ringing	Press and hold the CALL button for 1 second
Pairing (Manual)	Power Off	Press and hold the CALL button for 5 seconds
Mute on	Talking	Press and hold the VOL DOWN button for 1 second
Mute off	Mute on	Press and hold the VOL DOWN button for 1 second
Battery Status Check	Standby	Briefly press and release the VOL UP and VOL DOWN buttons simultaneously

LED indication and signal sound

HFB-500 Status	Signal sound	LED indcation
Power on	Startup tone	The LED indicator flashes 5 times rapidly
Power off	Shutdown tone	The LED indicator flashes 5 times rapidly
Pairing	Beeps twice	The LED indicator flashes at 2 second intervals. (The LED indicator is on 2 seconds, and off 2 seconds.)
Handsfree / Headset Profile connected	No beep	The LED indicator flashes twice every 5 seconds
Handsfree / Headset Profile Connected	Beeps once	The LED indicator flashes once every 5 seconds
Unintentional loss of connection	Beep periodically	The LED indicator flashes twice every 5 seconds
Charging	No beep	The LED indicator flashes slowly
Charging completed	No beep	The LED indicator turns off.
Battery power is low	No beep	The LED indicator flashes once every 3 seconds

Troubleshooting

Status	To check	Corrective action
Does not turn on	Check whether the battery of the HFB-500 is fully charged.	Charge the battery.
Unable to communicate with the LG Bluetooth Hands-free car kit	Check whether you mobile phone supports the “Headset” and /or “Handsfree” Bluetooth Profile(s).	Determine whether your handset supports the “Headset” or ”Handsfree” Bluetooth profiles(s).
	Check whether the HFB-500 battery is low.	Charge the battery.
Unable to pair the HFB-500 with Bluetooth device	Check and make sure the HFB-500 is on.	Press and hold the PWR button for 1 second to turn on the HFB-500.
	Check and make sure the HFB-500 is placed in pairing mode.	When the power is off, press and hold the CALL button for 5 seconds to manually place the HFB-500 in the pairing mode.
Extremely low or loud speaker volume	Check the speaker volume.	Press either the VOL UP button or the VOL DOWN button to control the volume accordingly.

Specifications

Name of product	A wireless device for wireless data communication system (LG HFB-500)	
Bluetooth® Specification	V2.1	
Supported profiles	HFP, HSP, GAP, SDAP	
Frequency	2.402GHz ~ 2.480 GHz(ISM band)	
Transmitting output	Class2	
Cover range	Within 10m / 33ft	
Battery	3.7V, Li-polymer, 780mA	
Standby time	Up to 1100 hours	
Talk time	Up to 16 hours	
Charging time	Using charger	Approximateely 2 h
	Using solar power	Approximateely 33 h (For a complete charge)
Operation temperature	-20℃ ~ 60℃	
Dimension / Weight	94.3 x 50.35 x 14.4 (mm) / 72 (g)	

Precautions

Do not drop the unit from high places.

Do not modify, repair, or take apart.

Do not expose directly to water, alcohol, benzene, etc. for clearing.

Do not expose directly to flammables.

Do not place or keep the unit near flammables.

Keep unit away from humidity & dust.

Precautions

Do not place heavy objects on the unit.

Please only use the hands-free car kit with an LG original charger. Otherwise the hands-free might be damaged.

- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- There is a risk of explosion if the battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

Declaration of confirmation

FCC NOTICE TO USERS :
This device complies with part 15 of the FCC rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference and
(2) This device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE :
To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

CE NOTICE TO USERS :
Hereby, [LG Electronics Inc.], declares that this [HFB-500] is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Bluetooth® CE1177 FC E11

1. Radio frequency exposure

This Bluetooth® Hands-free car kit, HFB-500, is a radio transmitter and receiver. When in operation, it communicates with a Bluetooth® equipped mobile device by receiving and transmitting radio frequency (RF) electromagnetic fields (microwaves) in the frequency range 2.4 to 2.4835 GHz. The output power of the radio transmitter is low, 0.001 watt. Your Bluetooth® Hands-free car kit is designed to operate in compliance with the RF exposure guidelines and limits set by national authorities and international health agencies when used any compatible LG Electronics mobile phone.

2. Potentially explosive atmosphere

Turn off your electronic device when in any area with a potentially explosive atmosphere. It is rare, but your electronic device could generate sparks. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Areas with a potentially explosive atmosphere are often, but not always, clearly marked.

3. Emergency calls

IMPORTANT!
This Bluetooth® Hands-free car kit and the electronic device connected to the Hands-free car kit operate using radio signals, cellular and landline networks as well as user- programmed functions, which cannot guarantee connection under all conditions. Therefore you should never rely solely upon any electronic device for essential communications (e.g. medical emergencies). Remember, in order to make or receive calls, the Hands-free car kit and the electronic device connected to the Hands-free car kit must be switched on and in a service area with adequate cellular signal strength. Emergency calls may not be possible on all cellular phone networks or when certain network services and/or phone features are in use. Check with your local service provider.

4. Battery information

A rechargeable battery has a long service life if treated properly. A new battery or one that has not been used for a long period of time could have reduced capacity the first few times it is used. Do not expose the battery to extreme temperatures, never above +60°(+140°F) or under -20°(-4°F). For maximum battery capacity, use the battery in room temperature. If the battery is used in low temperatures, the battery capacity will be reduced. The battery can only be charged in temperatures between +10°(+50°F) and +45°(+113°F).
For your safety, do not remove the battery incorporated in the product. If you need to replace the battery, take it to the nearest authorised LG Electronics service point or dealer for assistance.

5. Recycling the battery in your Bluetooth® Hands-free car kit

The battery in your Bluetooth® Hands-free car kit must be disposed of properly and should never be placed in municipal waste. The LG Electronics service partner removing battery will dispose of it according to local regulations.

6. Conditions

- The warranty is valid only if the original receipt issued to the original purchaser by the dealer, specifying the date of purchase and serial number, is presented with the product to be repaired or replaced. LG Electronics reserves the right to refuse warranty service if this information has been removed or changed after the original purchase of the product from the dealer.

- If LG Electronics repairs or replaces the product, the repaired or replaced product shall be warranted for the remaining time of the original warranty period or for ninety (90) days from the date of repair, whichever is longer. Repair or replacement may involve the use of functionally equivalent reconditioned units. Replaced parts or components will become the property of LG Electronics.

- This Warranty does not cover any failure of the product due to normal wear and tear, or due to misuse, including but not limited to use in other than the normal and customary manner, in accordance with instructions for use and maintenance of the product. Nor does this warranty cover any failure of the product due to accident, modification or adjustment, acts of God or damage resulting from liquid.

- This warranty does not cover product failures due to improper repair installations, modifications or service performed by a non-LG Electronics authorized person. Tampering with any of the seals on the product will void the warranty.

- THERE ARE NO EXPRESS WARRANTIES, WHETHER WRITTEN OR ORAL, OTHER THAN THIS PRINTED INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL LG ELECTRONICS OR ITS VENDORS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS OR COMMERCIAL LOSS, TO THE FULL EXTENT THOSE DAMAGES CAN BE DISCLAIMED BY LAW.

* Some countries/states do not allow the exclusion or limitation of incidental or consequential damages, or limitation of the duration of implied warranties, so the preceding limitations or exclusions may not apply to you. The warranty provided does not affect the consumer's statutory rights under applicable national legislation in force, nor the consumer's rights against the dealer arising from their sales/purchase contract.

Limited Warranty

Subject to the conditions of this Limited Warranty, LG Electronics warrants this product to be free from defects in design, material and workmanship at the time of its original purchase by a consumer, and for a subsequent period of one (1) year. Should your product need warranty service, please return it to the dealer from whom it was purchased or contact your local LG Electronics contact center to get further information.

Important safety information

Avoiding hearing damage Permanent hearing loss may occur if you use your headset(Hands-free car kit) at a high volume. Set the volume to a safe level. Over time you can become accustomed to a higher volume that may sound normal but can be damaging to your hearing. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked. The louder the volume, the less time is required before your hearing could be affected. Hearing experts suggest that to protect your hearing:

- Limit the amount of time you use the headset(Hands-free car kit) at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you can't hear people speaking near you.

For information about how to set a maximum volume limit on your handset (Hands-free car kit), please refer to the features guide for your handset.

Using headsets(Hands-free car kit) safely Use of headsets(Hands-free car kit) to listen to music while operating a vehicle is not recommended and is illegal in some areas. Be careful and attentive whilst driving. Stop using this device if you find it disruptive or distracting whilst operating any type of vehicle or performing any other activity that requires your full attention.

WARNINGS

WARNINGS - The failure to avoid the following hazardous situations could result in an accident or collision resulting in death or serious injury.

Never let your use of this HFB-500 Hands-Free Car kit, or use of a device cradled within the HFB-500 Hands-Free Car kit, divert your attention in any way from the safe operation of your vehicle. Always observe safe driving rules and obey all traffic laws.

All adjustments to or repositioning of the HFB-500 Hands-Free Car kit or any device cradled within the HFB-500 Hands-Free Car kit should be done when the vehicle is safely parked or stopped.

When installing the unit in a vehicle, make sure the unit is secure and does not obstruct the driver's view of the road or interfere with vehicle operating controls.

Do not mount this product near or over an airbag cover panel within an airbag deployment zone.

In some states certain operations of devices capable of use with this unit, including video functionality, while driving is illegal. In addition, some states prohibit or restrict the manner in which drivers may suction mount devices to their windshields. Please consult your local laws to determine whether any of the foregoing regulations apply.